

OBSERVATIONS & RECOMMENDATIONS

After reviewing data collected from **BLAISDELL LAKE** the program coordinators recommend the following actions.

FIGURE INTERPRETATION

- Figure 1: These graphs illustrate concentrations of chlorophyll-a, also a measure of algal abundance, in the water column. Algae are microscopic plants that are a natural part of lake ecosystems. Algae contain chlorophyll-a, a pigment necessary for photosynthesis. A measure of chlorophyll-a can indicate the abundance of algae in a lake. The historical data (the bottom graph) show a *worsening* in-lake chlorophyll-a trend since 1995, meaning concentrations are increasing. Chlorophyll-a concentrations were still above the normal range for the lake this year, but also remained below the NH mean. The species of algae collected this year are normal for New Hampshire lakes and ponds. While algae are present in all lakes, an excess amount of any type is not welcomed. Concentrations can increase when there are external and internal sources of phosphorus, which is the nutrient algae depend upon for growth. It's important to continue the education process and keep residents aware of the sources of phosphorus and how it influences lake quality.
- Figure 2: Water clarity is measured by using a Secchi disk. Clarity, or transparency, can be influenced by such things as algae, sediments from erosion, and natural colors of the water. The graphs on this page show historical and current year data. The lower graph shows a *worsening* trend in lake transparency since 1995, which correlates with the increase in chlorophyll-a concentrations Blaisdell Lake has been experiencing. Clarity did increase throughout the summer. The 2000 sampling season was considered to be wet and, therefore, average transparency readings are expected to be slightly lower than last year's readings. Higher amounts of rainfall usually cause more eroding of sediments into the lake and streams, thus decreasing clarity.
- Figure 3: These figures show the amounts of phosphorus in the epilimnion (the upper layer in the lake) and the hypolimnion (the lower layer); the inset graphs show current year data. Phosphorus is the limiting nutrient for plants and algae in New Hampshire waters. Too much phosphorus in a lake can lead to increases in plant growth

over time. These graphs show a *slightly improving* trend for in-lake phosphorus levels, which means levels are decreasing. Phosphorus concentrations in both layers of the lake remain below the mean values for NH. One of the most important approaches to reducing phosphorus levels is educating the public. Humans introduce phosphorus to lakes by several means: fertilizing lawns, septic system failures, and detergents containing phosphates are just a few. Keeping the public aware of ways to reduce the input of phosphorus to lakes means less productivity in the lake in the lake. Contact the VLAP coordinator for tips on educating your lake residents or for ideas on testing your watershed for phosphorus inputs.

OTHER COMMENTS

- Please note the averages of the June sampling events' results were used to create the graphs.
- Russell Inlet experienced a large increase in total phosphorus this year (Table 8). Throughout June and July the concentrations ranged from 10 to 17 µg/L. These levels are considered average in New Hampshire waters. However, in August the concentration increased to 47 µg/L. It is likely that this tributary was stagnant in August and the nutrients were concentrated in the water. However, if this is not the case we would suggest continuing to sample upstream at the Johnson Street site where the DES biologist sampled in July. Please remember to write on your data sheets the flow conditions of the inlets. Written documentation helps us when looking at irregular results.
- The Johnson Street sample that was taken in July had similar results as the Russell Inlet sample. The conductivity was slightly higher at the upstream site (Table 6), but the result was not excessive. A total phosphorus sample was not taken because the biologist did not have enough sample bottles. If the association is interested in sampling this site in the future we suggest taking the total phosphorus sample so we can compare the results with the Russell Inlet historical data.
- Please note the dissolved oxygen test was incomplete this year due to a battery failure. The Table 9 in this year's report is not inclusive. However, the dissolved oxygen was low at the depths where readings were taken. The process of decomposition in the sediments depletes dissolved oxygen on the bottom of the lake. As bacteria break down organic matter, they deplete oxygen in the water. When oxygen gets below 1 mg/L, phosphorus normally bound up in the mud may be released into the water column, a process that is referred to as *internal loading*. Depleted oxygen in the hypolimnion usually occurs as the summer progresses. As stated last year, we would like to schedule next summer's biologist visit for August to observe any further reductions in oxygen.

- Billings Inlet had high turbidity in August (Table 11) and the total phosphorus was correspondingly higher than normal (Table 8). It is possible that some sediment was collected in the sample bottle. Please take care when sampling the inlets as sediment can skew the results. If the inlet is too shallow in the area that is normally sampled find another section where the flow and depth are adequate.

NOTES

- Monitor's Note (6/27/00): Thunderstorms last night, heavy rain.
- Monitor's Note (7/27/00): New houses being built. Johnson Street sample is upstream of Russell Inlet.
- Monitor's Note (8/29/00): Calm, clear water.

USEFUL RESOURCES

Comprehensive Shoreland Protection Act, RSA 483-B, WD-BB-35, NHDES Fact Sheet. (603) 271-3503 or www.state.nh.us

A Brief History of Lakes, NH Lakes Association pamphlet, (603) 226-0299 or www.nhlakes.org

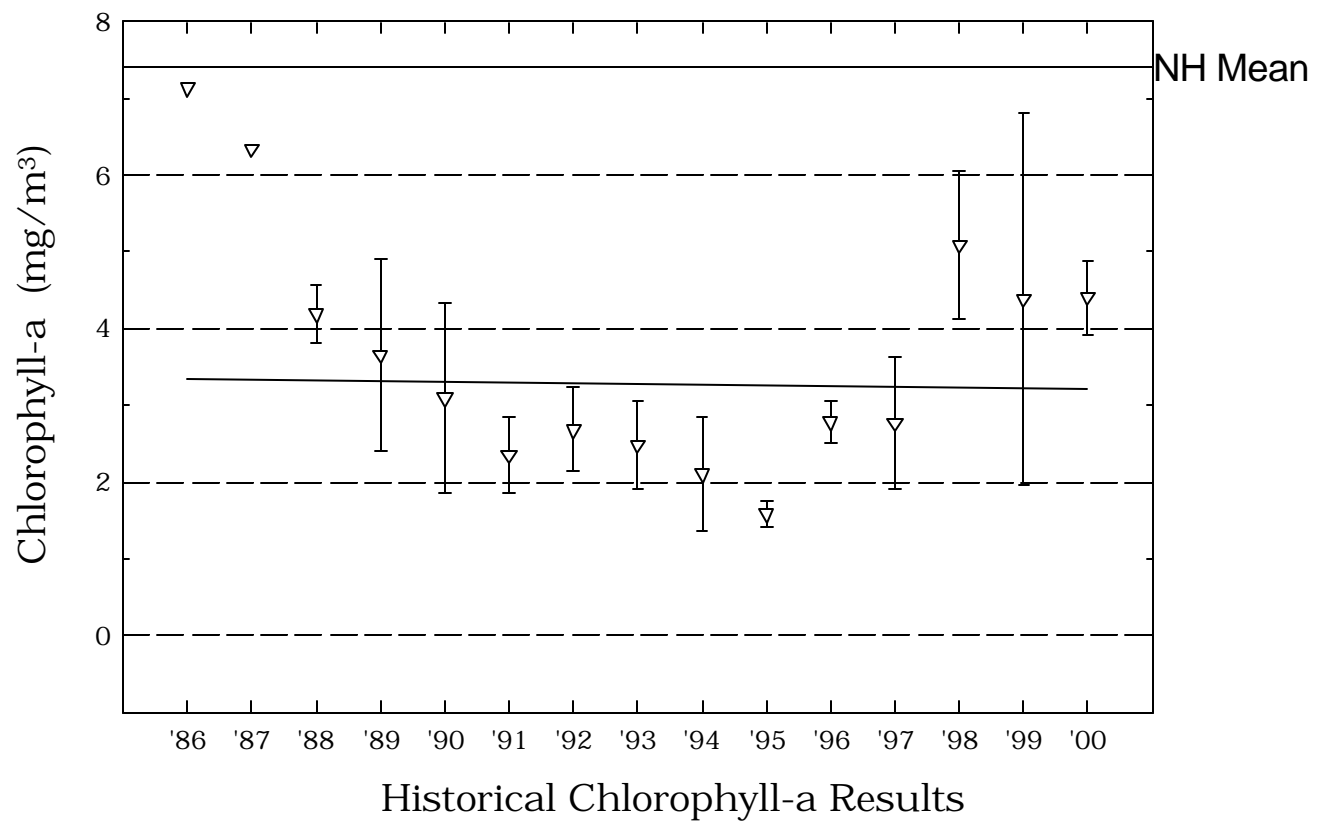
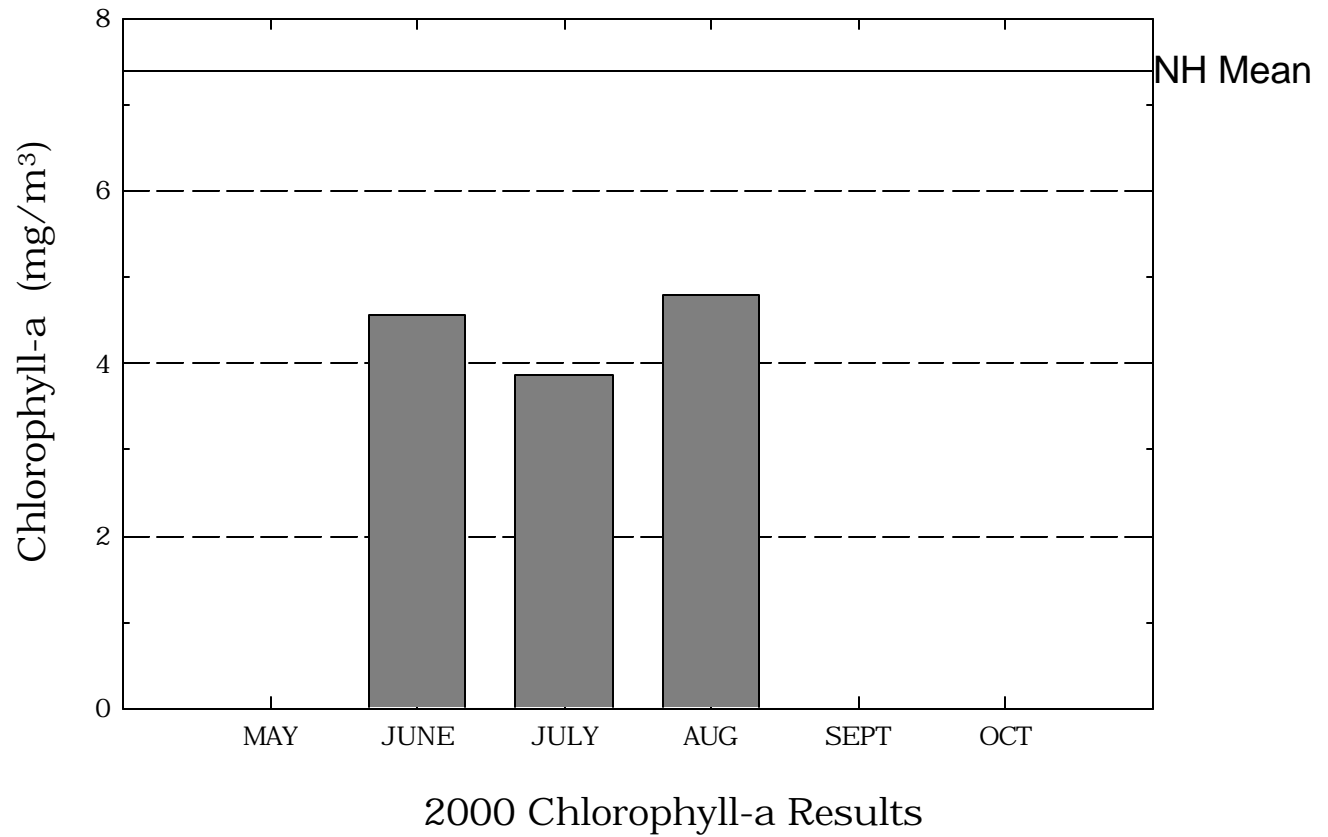
Proper Lawn Care Can Protect Waters, WD-BB-31, NHDES Fact Sheet, (603) 271-3503 or www.state.nh.us

Septic Systems and Your Lake's Water Quality, WD-BB-11, NHDES Fact Sheet, (603) 271-3503 or www.state.nh.us

Effects of Phosphorus on New Hampshire's Lakes, NH Lakes Association pamphlet, (603) 226-0299 or www.nhlakes.org

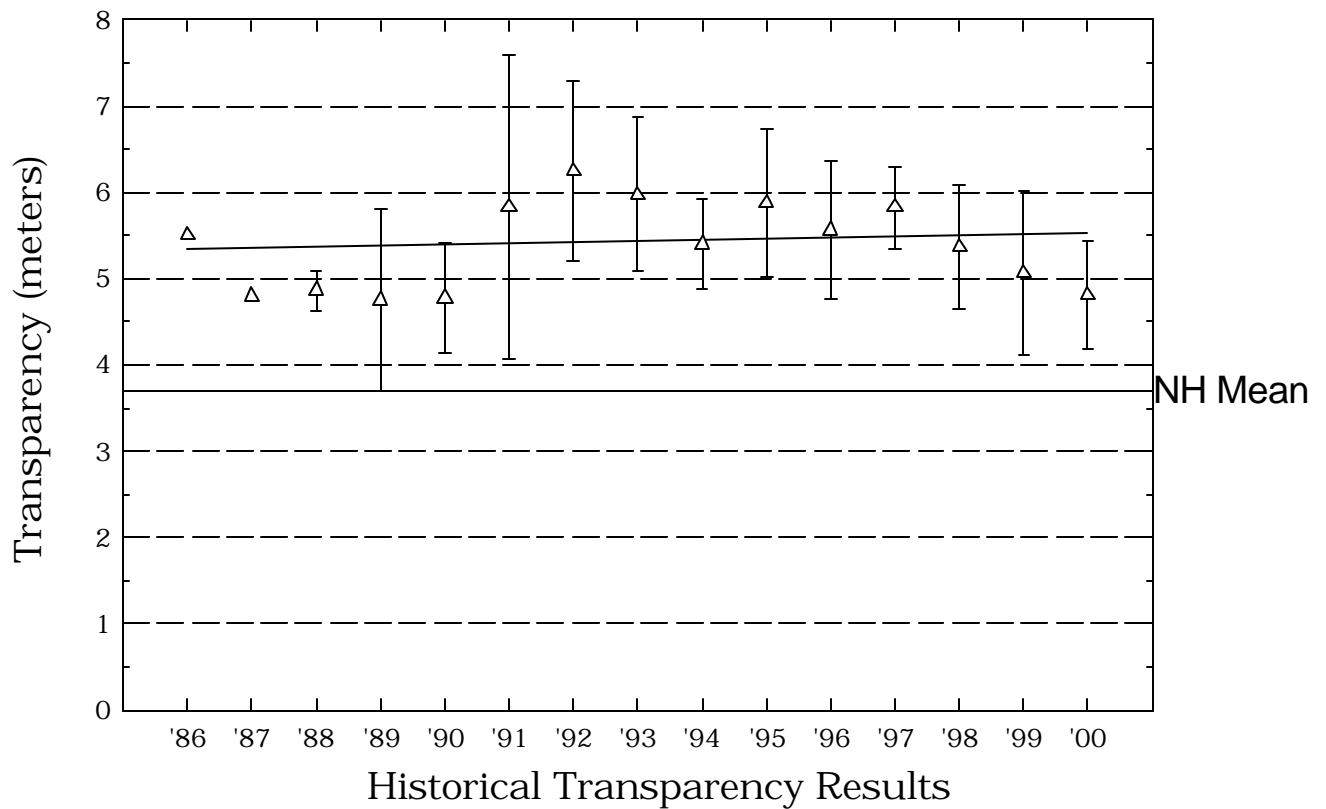
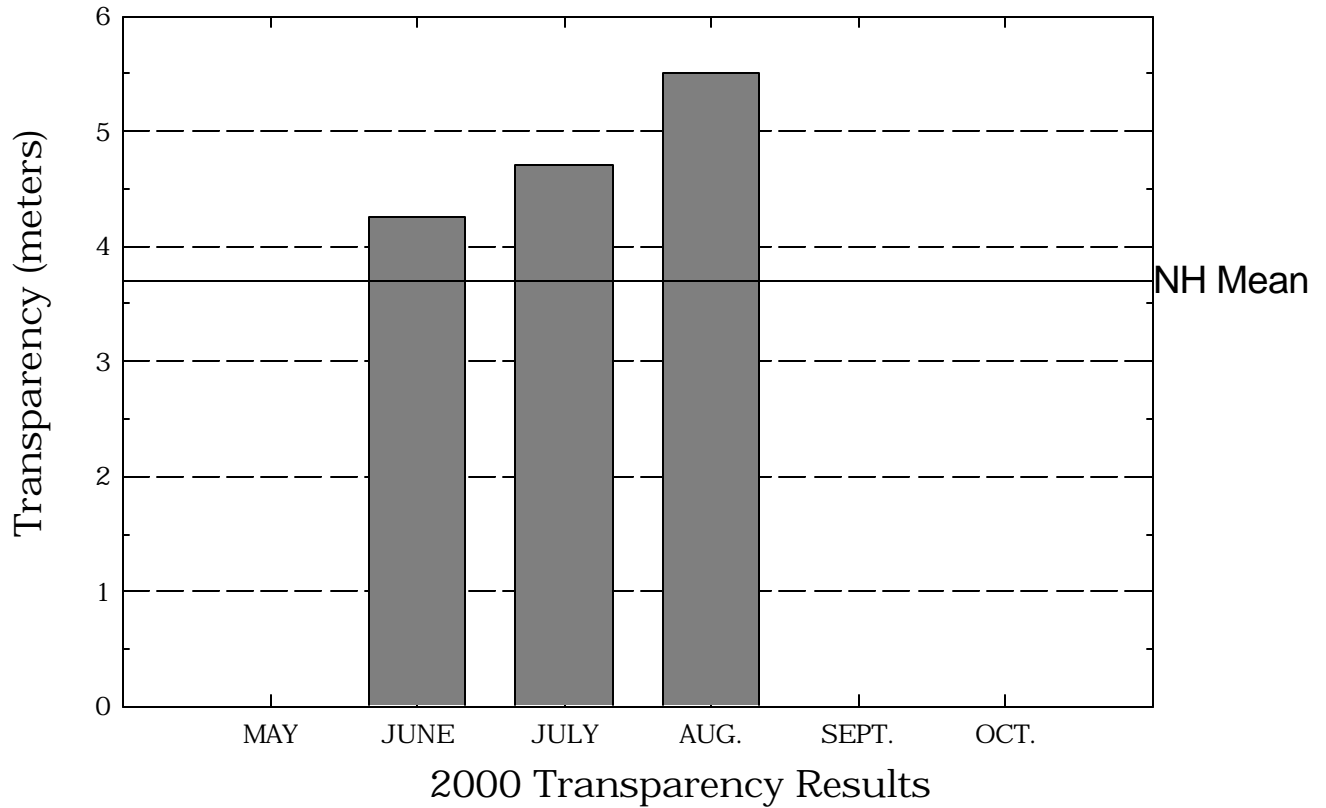
Blaisdell Lake

Figure 1. Monthly and Historical Chlorophyll-a Results



Blaisdell Lake

Figure 2. Monthly and Historical Transparency Results



Blaisdell Lake

Figure 3. Monthly and Historical Total Phosphorus Data.

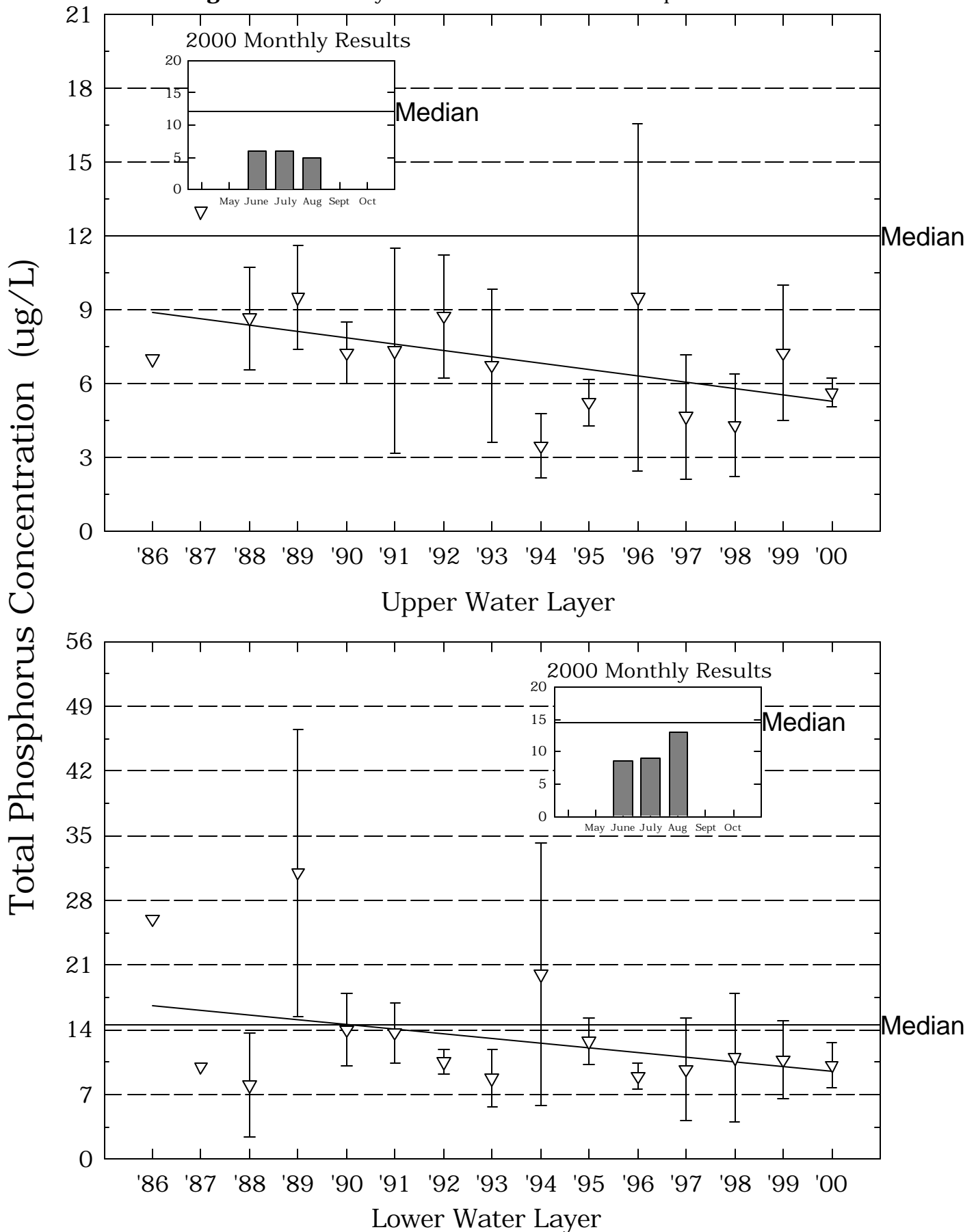


Table 1.**BLAISDELL LAKE
SUTTON****Chlorophyll-a results (mg/m³) for current year and historical
sampling periods.**

Year	Minimum	Maximum	Mean
1986	7.14	7.14	7.14
1987	6.34	6.34	6.34
1988	3.96	4.64	4.19
1989	2.77	4.55	3.83
1990	1.87	4.77	3.10
1991	1.80	3.27	2.58
1992	2.16	3.46	2.68
1993	1.97	3.27	2.48
1994	1.47	3.18	2.11
1995	1.45	1.80	1.58
1996	2.54	3.11	2.78
1997	2.18	4.01	2.78
1998	3.82	6.14	5.04
1999	2.73	7.94	4.39
2000	3.86	4.93	4.44

Table 2.

**BLAISDELL LAKE
SUTTON**

Phytoplankton species and relative percent abundance.

Summary for current and historical sampling seasons.

Date of Sample	Species Observed	Relative % Abundance
07/08/1987	ASTERIONELLA	38
	DINOBRYON	24
	SYNURA	10
06/28/1988	DINOBRYON	41
	ASTERIONELLA	32
05/31/1990	ASTERIONELLA	34
	PERIDINIUM	24
07/31/1991	ASTERIONELLA	63
	DINOBRYON	18
	CHRYSPHAERELLA	16
06/18/1992	DINOBRYON	66
	CHRYSPHAERELLA	16
	CERATIUM	6
07/14/1993	DINOBRYON	62
	CHRYSPHAERELLA	20
08/11/1993	ASTERIONELLA	94
08/22/1995	DINOBRYON	24
	CHRYSPHAERELLA	22
	STAUSTRUM	13
08/15/1996	ASTERIONELLA	62
	DINOBRYON	21
	CHRYSPHAERELLA	12
07/23/1997	DINOBRYON	20
	CHRYSPHAERELLA	15
	TABELLARIA	15
06/30/1998	SYNURA	41
	TABELLARIA	31
	CHRYSPHAERELLA	16

Table 2.

**BLAISDELL LAKE
SUTTON**

**Phytoplankton species and relative percent abundance.
Summary for current and historical sampling seasons.**

Date of Sample	Species Observed	Relative % Abundance
07/27/1999	STAURASTRUM	30
	DINOBRYON	42
	CHRYSOSPHAERELLA	15
07/27/2000	ASTERIONELLA	85
	DINOBRYON	7
	CHRYSOSPHAERELLA	4

Table 3.**BLAISDELL LAKE****SUTTON**

**Summary of current and historical Secchi Disk
transparency results (in meters).**

Year	Minimum	Maximum	Mean
1986	5.5	5.5	5.5
1987	4.8	4.8	4.8
1988	4.6	5.0	4.8
1989	4.0	5.5	4.6
1990	4.0	5.5	4.7
1991	4.0	7.5	5.5
1992	5.0	7.5	6.2
1993	5.0	7.0	5.9
1994	5.0	6.0	5.4
1995	5.0	7.0	5.8
1996	4.8	6.4	5.5
1997	5.5	6.5	5.8
1998	4.5	6.0	5.2
1999	4.0	5.8	5.0
2000	4.0	5.5	4.6

Table 4.**BLAISDELL LAKE
SUTTON**

**pH summary for current and historical sampling seasons.
Values in units, listed by station and year.**

Station	Year	Minimum	Maximum	Mean
BILLINGS INLET	1987	6.42	6.42	6.42
	1988	6.41	6.86	6.63
	1989	6.56	7.09	6.79
	1990	6.62	6.88	6.72
	1991	6.41	6.79	6.59
	1992	6.47	6.56	6.51
	1994	6.19	6.19	6.19
	1995	6.45	6.84	6.60
	1996	6.44	6.84	6.58
	1997	6.31	6.92	6.49
	1998	6.42	6.64	6.54
	1999	6.71	6.71	6.71
	2000	6.45	6.57	6.49
BLODGETT	1993	7.52	7.52	7.52
BROWN INLET	1990	6.71	7.03	6.92
	1991	6.89	7.07	6.98
	1992	6.88	7.03	6.94
	1993	6.90	6.94	6.92
	1994	6.83	7.01	6.94
	1995	6.70	7.38	6.88
	1996	6.86	7.18	6.99
	1997	6.91	7.19	7.04

Table 4.

**BLAISDELL LAKE
SUTTON**

**pH summary for current and historical sampling seasons.
Values in units, listed by station and year.**

Station	Year	Minimum	Maximum	Mean
CHANDLER	1998	6.42	7.16	6.78
	1999	6.79	7.02	6.92
	2000	6.71	6.92	6.81
DUBE	1993	7.49	7.49	7.49
	1993	7.50	7.50	7.50
ELLSWORTH	1993	7.40	7.40	7.40
	1993	7.40	7.40	7.40
EPILIMNION	1986	7.15	7.15	7.15
	1987	6.87	6.87	6.87
	1988	7.13	7.24	7.18
	1989	6.97	7.19	7.07
	1990	6.98	7.10	7.04
	1991	6.11	7.15	6.58
	1992	7.08	7.27	7.17
	1993	6.96	7.36	7.13
	1994	6.81	7.19	7.03
	1995	6.92	7.65	7.14
	1996	6.90	7.16	7.02
	1997	6.98	7.21	7.06
	1998	6.89	7.18	7.06
	1999	6.72	7.22	7.00

Table 4.

**BLAISDELL LAKE
SUTTON**

**pH summary for current and historical sampling seasons.
Values in units, listed by station and year.**

Station	Year	Minimum	Maximum	Mean
HYPOLIMNION	2000	6.52	7.03	6.77
	1986	6.38	6.38	6.38
	1987	6.37	6.37	6.37
	1988	6.35	7.22	6.53
	1989	6.36	6.50	6.44
	1990	6.15	6.99	6.52
	1991	6.21	6.79	6.42
	1992	6.24	6.65	6.39
	1993	6.29	7.15	6.54
	1994	6.34	6.92	6.55
	1995	6.33	7.11	6.64
	1996	6.20	6.61	6.40
	1997	6.15	6.52	6.35
	1998	6.24	6.46	6.32
	1999	6.30	6.55	6.36
	2000	6.17	6.77	6.37
INLET				
	1986	7.20	7.20	7.20
JOHNSON STREET				
	2000	6.67	6.67	6.67
MESCUILLI				
	1993	7.39	7.39	7.39

Table 4.**BLAISDELL LAKE
SUTTON**

pH summary for current and historical sampling seasons.
Values in units, listed by station and year.

Station	Year	Minimum	Maximum	Mean
METALIMNION	1986	7.10	7.10	7.10
	1987	6.64	6.64	6.64
	1988	7.09	7.13	7.11
	1989	6.94	7.17	7.05
	1990	7.00	7.06	7.02
	1991	6.29	7.12	6.64
	1992	6.68	7.03	6.91
	1993	6.88	7.31	7.02
	1994	6.73	6.86	6.78
	1995	6.47	7.58	6.83
	1996	6.60	6.95	6.76
	1997	6.90	7.15	6.98
	1998	6.52	7.14	6.90
	1999	6.64	6.98	6.77
	2000	6.49	6.85	6.67
OUTLET	1986	7.17	7.17	7.17
	1987	6.99	6.99	6.99
	1988	7.12	7.29	7.20
	1989	7.05	7.18	7.13
	1990	6.92	7.02	6.96
	1991	6.97	7.11	7.06
	1992	7.00	7.08	7.05
	1993	6.92	7.22	7.09
	1994	6.85	7.10	6.99

Table 4.

**BLAISDELL LAKE
SUTTON**

**pH summary for current and historical sampling seasons.
Values in units, listed by station and year.**

Station	Year	Minimum	Maximum	Mean
OUTLET	1995	6.80	7.53	7.05
	1996	6.97	7.23	7.07
	1997	6.85	7.24	7.00
	1998	6.85	7.03	6.96
	1999	6.86	7.06	6.98
	2000	6.89	7.02	6.95
RED COTTAGE	1988	6.92	7.20	7.08
	1989	6.91	7.17	7.07
	1990	6.95	6.95	6.95
RUSSELL INLET	1988	6.77	7.19	7.00
	1989	7.06	7.25	7.16
	1990	6.76	7.26	7.03
	1991	6.98	7.22	7.05
	1992	6.88	7.04	6.96
	1994	6.71	6.99	6.83
	1996	6.79	7.22	6.98
	1997	6.81	7.23	7.00
	1998	6.42	7.07	6.75
	1999	6.86	6.86	6.86
	2000	6.55	6.98	6.74

Table 4.

BLAISDELL LAKE

SUTTON

pH summary for current and historical sampling seasons.

Values in units, listed by station and year.

Station	Year	Minimum	Maximum	Mean
TAYLOR				
	1993	7.43	7.43	7.43
VEGA				
	1993	7.34	7.34	7.34
YOUNG				
	1993	7.51	7.51	7.51

Table 5.**BLAISDELL LAKE****SUTTON****Summary of current and historical Acid Neutralizing Capacity.****Values expressed in mg/L as CaCO₃.****Epilimnetic Values**

Year	Minimum	Maximum	Mean
1987	6.00	6.00	6.00
1988	7.10	7.70	7.30
1989	7.10	7.60	7.37
1990	6.10	7.00	6.60
1991	5.80	7.80	6.73
1992	6.10	7.60	6.78
1993	6.10	7.70	6.85
1994	6.50	7.30	6.93
1995	6.70	7.70	7.08
1996	6.40	7.50	6.90
1997	3.30	6.70	5.68
1998	6.10	6.10	6.10
1999	6.60	7.20	6.80
2000	4.70	6.80	6.13

Table 6.**BLAISDELL LAKE****SUTTON**

**Specific conductance results from current and historic
sampling seasons. Results in uMhos/cm.**

Station	Year	Minimum	Maximum	Mean
BILLINGS INLET	1988	39.6	40.1	39.8
	1989	40.3	56.3	50.8
	1990	38.7	41.5	40.3
	1991	37.8	43.6	39.8
	1992	44.2	45.7	44.9
	1994	61.6	61.6	61.6
	1995	50.8	56.6	53.7
	1996	44.7	46.9	45.8
	1997	44.1	47.0	45.5
	1998	46.6	49.0	47.8
	1999	56.5	56.5	56.5
	2000	53.6	58.3	55.6
BLODGETT	1993	62.8	62.8	62.8
BROWN INLET	1990	28.7	34.1	31.6
	1991	28.6	35.7	33.6
	1992	29.5	37.8	33.9
	1993	23.0	27.8	25.4
	1994	26.8	59.0	38.5
	1995	42.1	62.9	50.4
	1996	31.7	50.2	38.7
	1997	36.2	45.0	40.2
	1998	30.4	49.4	37.1

Table 6.**BLAISDELL LAKE****SUTTON**

**Specific conductance results from current and historic
sampling seasons. Results in uMhos/cm.**

Station	Year	Minimum	Maximum	Mean
	1999	32.0	44.2	39.1
	2000	31.1	39.9	34.0
CHANDLER				
	1993	62.7	62.7	62.7
DUBE				
	1993	62.7	62.7	62.7
ELLSWORTH				
	1993	62.8	62.8	62.8
EPILIMNION				
	1986	54.9	54.9	54.9
	1988	53.9	54.6	54.3
	1989	55.0	57.2	55.7
	1990	51.9	54.6	53.9
	1991	53.1	55.1	54.1
	1992	58.1	60.2	59.2
	1993	62.0	64.2	62.9
	1994	58.0	67.3	64.0
	1995	63.4	68.2	66.2
	1996	59.2	61.2	59.9
	1997	55.0	58.3	57.2
	1998	59.7	60.5	60.1
	1999	66.2	68.6	67.5
	2000	47.0	69.0	63.3

Table 6.

**BLAISDELL LAKE
SUTTON**

**Specific conductance results from current and historic
sampling seasons. Results in uMhos/cm.**

Station	Year	Minimum	Maximum	Mean
HYPOLIMNION	1986	61.9	61.9	61.9
	1988	52.8	58.3	55.0
	1989	57.1	67.2	61.0
	1990	54.3	56.9	55.5
	1991	51.9	58.4	55.5
	1992	58.5	60.8	59.5
	1993	60.9	64.4	62.2
	1994	58.0	68.5	64.5
	1995	66.2	68.2	67.2
	1996	60.9	65.4	62.9
	1997	56.5	59.0	57.9
	1998	23.6	66.2	54.8
	1999	66.0	73.9	68.9
	2000	67.6	75.1	70.8
INLET	1986	55.5	55.5	55.5
JOHNSON STREET	2000	133.8	133.8	133.8
MESCUCCI	1993	62.6	62.6	62.6
METALIMNION	1986	55.7	55.7	55.7
	1988	53.8	54.4	54.1
	1989	55.5	56.4	55.8

Table 6.

**BLAISDELL LAKE
SUTTON**

**Specific conductance results from current and historic
sampling seasons. Results in uMhos/cm.**

Station	Year	Minimum	Maximum	Mean
	1990	51.9	55.6	54.2
	1991	51.8	54.3	53.3
	1992	58.2	60.1	59.1
	1993	61.6	64.9	62.9
	1994	58.0	65.9	63.4
	1995	64.1	68.2	66.0
	1996	58.7	61.2	60.0
	1997	54.5	58.3	56.6
	1998	57.2	62.6	59.5
	1999	66.3	68.4	66.8
	2000	68.3	69.2	68.6
OUTLET	1986	55.7	55.7	55.7
	1988	53.5	54.1	53.8
	1989	55.5	56.1	55.9
	1990	52.6	54.4	53.5
	1991	52.6	54.9	53.9
	1992	59.6	60.1	59.7
	1993	62.1	64.8	63.7
	1994	32.0	65.5	56.5
	1995	63.9	68.4	66.9
	1996	59.2	61.4	60.0
	1997	54.9	58.4	57.3
	1998	56.2	59.6	58.1
	1999	65.8	68.7	67.1

Table 6.

BLAISDELL LAKE

SUTTON

Specific conductance results from current and historic
sampling seasons. Results in uMhos/cm.

Station	Year	Minimum	Maximum	Mean
RED COTTAGE	2000	67.5	68.9	68.1
	1988	53.5	54.6	53.9
	1989	55.1	56.4	55.9
	1990	54.3	54.3	54.3
RUSSELL INLET	1988	53.2	54.8	53.8
	1989	56.3	59.6	57.4
	1990	83.5	118.9	97.9
	1991	34.9	125.9	84.6
	1992	111.5	136.8	125.9
	1994	116.1	162.4	139.2
	1996	96.6	121.1	107.6
	1997	20.7	149.2	109.4
	1998	107.6	131.8	117.4
	1999	131.3	131.3	131.3
TAYLOR	2000	111.0	157.5	125.5
	1993	62.6	62.6	62.6
VEGA	1993	62.5	62.5	62.5
	1993	62.5	62.5	62.5
YOUNG	1993	62.8	62.8	62.8
	1993	62.8	62.8	62.8

Table 8.**BLAISDELL LAKE****SUTTON**

**Summary historical and current sampling season Total
Phosphorus data. Results in ug/L.**

Station	Year	Minimum	Maximum	Mean
BILLINGS INLET	1987	17	17	17
	1988	14	19	16
	1989	8	16	13
	1990	9	13	11
	1991	9	17	12
	1992	14	14	14
	1994	13	13	13
	1995	17	36	26
	1996	12	36	19
	1997	10	12	11
	1998	7	9	8
	1999	13	13	13
	2000	14	19	15
BLODGETT	1993	5	5	5
BROWN INLET	1990	18	39	27
	1991	27	51	39
	1992	27	52	40
	1993	19	38	28
	1994	21	47	34
	1995	34	73	50
	1996	9	29	19
	1997	12	17	14

Table 8.

BLAISDELL LAKE

SUTTON

**Summary historical and current sampling season Total
Phosphorus data. Results in ug/L.**

Station	Year	Minimum	Maximum	Mean
	1998	10	21	16
	1999	15	17	15
	2000	11	18	14
CHANDLER				
	1993	7	7	7
DUBE				
	1993	6	6	6
ELLSWORTH				
	1993	6	6	6
EPILIMNION				
	1986	7	7	7
	1987	13	13	13
	1988	7	11	8
	1989	3	11	7
	1990	6	9	7
	1991	4	12	7
	1992	6	12	8
	1993	4	11	6
	1994	2	5	3
	1995	4	6	5
	1996	5	20	9
	1997	2	7	4
	1998	2	7	4
	1999	4	10	7
	2000	4	8	5

Table 8.

BLAISDELL LAKE

SUTTON

**Summary historical and current sampling season Total
Phosphorus data. Results in ug/L.**

Station	Year	Minimum	Maximum	Mean
HYPOLIMNION	1986	26	26	26
	1987	10	10	10
	1988	2	13	8
	1989	10	42	24
	1990	10	19	14
	1991	9	16	12
	1992	9	12	10
	1993	6	13	8
	1994	6	37	20
	1995	10	16	12
	1996	8	11	9
	1997	3	16	9
	1998	6	19	9
	1999	5	15	10
	2000	7	13	9
INLET	1986	6	6	6
MESCULLI	1993	5	5	5
METALIMNION	1986	10	10	10
	1987	12	12	12
	1988	7	10	8
	1989	6	10	7

Table 8.**BLAISDELL LAKE****SUTTON**

**Summary historical and current sampling season Total
Phosphorus data. Results in ug/L.**

Station	Year	Minimum	Maximum	Mean
	1990	8	11	10
	1991	6	11	8
	1992	5	11	8
	1993	4	16	9
	1994	3	5	3
	1995	5	10	7
	1996	5	21	9
	1997	2	14	7
	1998	6	10	7
	1999	3	12	7
	2000	5	10	7
OUTLET				
	1986	10	10	10
	1987	11	11	11
	1988	4	11	7
	1989	4	9	6
	1990	3	10	6
	1991	4	9	5
	1992	3	14	7
	1993	5	41	19
	1994	3	28	11
	1995	5	11	7
	1996	3	8	5
	1997	3	7	4
	1998	5	6	5

Table 8.

BLAISDELL LAKE

SUTTON

**Summary historical and current sampling season Total
Phosphorus data. Results in ug/L.**

Station	Year	Minimum	Maximum	Mean
RED COTTAGE	1999	4	10	7
	2000	5	7	6
RED COTTAGE	1988	6	22	11
	1989	4	7	5
	1990	7	10	8
RUSSELL INLET				
	1988	5	20	11
	1989	3	9	6
	1990	9	17	12
	1991	13	25	17
	1992	9	24	15
	1994	10	11	10
	1996	7	15	10
	1997	4	16	9
	1998	9	14	11
	1999	2	2	2
	2000	10	47	21
TAYLOR				
	1993	6	6	6
VEGA				
	1993	6	6	6
YOUNG				
	1993	6	6	6

Table 9.
BLAISDELL LAKE
SUTTON

Current year dissolved oxygen and temperature data.

Depth (meters)	Temperature (celsius)	Dissolved Oxygen (mg/L)	Saturation (%)
July 27, 2000			
8.0	11.4	2.8	25.5
9.0	10.5	1.4	12.7
10.0	9.9	1.0	9.2
11.0	9.5	0.8	7.0

Table 10.**BLAISDELL LAKE****SUTTON****Historic Hypolimnetic dissolved oxygen and temperature data.**

Date	Depth (meters)	Temperature (celsius)	Dissolved Oxygen (mg/L)	Saturation (%)
July 8, 1987	12.0	9.0	1.2	10.0
June 28, 1988	11.0	8.5	5.9	49.0
May 31, 1990	12.0	8.0	0.8	6.7
July 9, 1990	12.0	8.3	1.6	13.0
July 31, 1991	11.0	11.0	0.5	4.5
June 18, 1992	10.0	8.5	7.6	64.7
July 14, 1993	13.0	9.0	0.8	6.0
August 11, 1993	11.0	10.0	0.4	3.0
July 6, 1994	10.0	11.3	2.3	21.0
August 15, 1996	12.0	10.4	0.3	3.0
July 23, 1997	13.0	11.3	1.5	13.0
June 30, 1998	12.0	10.0	4.6	40.0
July 27, 1999	10.0	11.0	0.8	7.6
July 27, 2000	11.0	9.5	0.8	7.0

Table 11.

**BLAISDELL LAKE
SUTTON**

**Summary of current year and historic turbidity sampling.
Results in NTU's.**

Station	Year	Minimum	Maximum	Mean
BILLINGS INLET	1994	2.0	2.0	2.0
	1995	1.1	1.5	1.3
	1996	0.5	1.0	0.7
	1997	0.3	1.0	0.7
	1998	0.3	1.3	0.8
	1999	0.7	0.7	0.7
	2000	0.6	9.7	3.2
BROWN INLET	1994	0.9	1.3	1.0
	1995	0.7	2.1	1.5
	1996	0.2	0.4	0.3
	1997	0.5	0.6	0.5
	1998	0.3	1.8	1.0
	1999	0.2	0.9	0.4
	2000	0.4	1.1	0.6
EPILIMNION	1994	0.7	1.1	0.8
	1995	0.4	0.7	0.5
	1996	0.4	0.5	0.4
	1997	0.2	0.8	0.5
	1998	0.3	1.0	0.8
	1999	0.3	1.0	0.6
	2000	0.3	0.8	0.5
HYPOLIMNION	1994	0.6	1.0	0.8

Table 11.**BLAISDELL LAKE****SUTTON****Summary of current year and historic turbidity sampling.****Results in NTU's.**

Station	Year	Minimum	Maximum	Mean
	1995	0.3	0.6	0.4
	1996	0.3	2.6	1.2
	1997	1.0	1.7	1.2
	1998	0.8	9.2	2.8
	1999	0.8	8.5	3.1
	2000	0.7	3.3	1.7
JOHNSON STREET				
	2000	0.5	0.5	0.5
METALIMNION				
	1994	0.6	1.0	0.8
	1995	0.4	0.6	0.4
	1996	0.1	0.6	0.4
	1997	0.5	1.0	0.6
	1998	0.4	1.1	0.7
	1999	0.3	1.2	0.7
	2000	0.2	1.3	0.7
OUTLET				
	1994	0.7	1.0	0.8
	1995	0.3	2.3	0.8
	1996	0.3	0.6	0.4
	1997	0.2	0.6	0.4
	1998	0.2	1.4	0.7
	1999	0.2	0.9	0.6
	2000	0.2	1.0	0.6
RUSSELL INLET				
	1994	0.7	1.8	1.2

Table 11.

BLAISDELL LAKE

SUTTON

Summary of current year and historic turbidity sampling.

Results in NTU's.

Station	Year	Minimum	Maximum	Mean
	1996	0.6	0.9	0.8
	1997	1.0	2.1	1.3
	1998	0.5	1.6	1.1
	1999	0.5	0.5	0.5
	2000	0.7	1.8	1.3